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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	08/653,425 FEB 03	
	Filing Date	Technology Center	
	First Named Inventor	D. DARIAN MURESAN	
	Group Art Unit	2674	
	Examiner Name	REGINA LIANG	
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Dear Mrs. Regina Liang;

Here is the revised patent application entitled "Computer Mouse." This letter contains information about the materials included in this submission as well as our responses to your last "Office Action Summary."

In regards to your detailed action 1, 2, and 3, you will now find two copies of the patent application. The first one is entitled: "Version with Marking to Show Changes for Patent COMPUTER MOUSE," and the second one is entitled "Computer Mouse."

The document "Version with Marking to Show Changes for Patent COMPUTER MOUSE," contains the exact text of the application submitted on the 6th of November, 2002, but sectioned so that the required title, abstract, background of the invention, brief summary of the invention, description of the drawings, claims, and drawings are arranged as in the "Arrangement of the Specification" you mentioned in your guidelines.

In addition, we felt that our original description of the invention was overly simplistic. You will find a revised version of the document "Version with Marking to Show Changes for Patent COMPUTER MOUSE" in the document "Computer Mouse." More specifically, here are the differences:

1. The ABSTRACT is a one-page document that contains more detailed information rather than a simple sentence.
2. BACKGROUND OF THE INVENTION is also more detailed, although no new information has been introduced. In addition, we briefly mentioned the two patents you have used to oppose our patent (US-5,371,516 and US-5,583,541) and how they are different from this patent.
3. BRIEF SUMMARY OF THE INVENTION also contains more detail. Again, no new information has been introduced.
4. BRIEF DESCRIPTION OF THE DRAWINGS is almost identical. We slightly changed the wording of the description for the second figure.
5. DETAILED DESCRIPTION OF THE INVENTION contains the same information, but there are more details. Again, no new information has been introduced.
6. CLAIMS have been slightly changed. The words "to press" on the first line have been changed to "to pull." We felt that PULL is more descriptive than PRESS, although by pulling the ball, the ball is pressed against the X and Y shafts. Again, a slight change of wording, but no new matter has been introduced. Our second change is the replacement of "no third contact between the ball" with "no third, or any other contact between the ball." Again, we felt that this adds more clarity to the claim. However, the meaning is still the same, since there cannot be any other contact without having a third contact first.
7. We also made a slight change to the FIGURES. In particular, instead of labeling the forces in the two figures as F, we labeled them as F1 in Figure 1 and F2 in Figure 2. We did mention in the text that F1 is equal with F2.

In regards to your detailed action 4, 5, and 6, we disagree with your conclusion that Solhjell's invention describes the patent we are presenting to you. Our disagreement is based on the following reason:

In your detailed action you stated:

"A third contact (the free rolling 18 as shown in Fig. 5) is REPLACED with a magnet (66 in Fig. 11), therefore, there is not third contact between the ball and another wheel as claimed."

We disagree with your statement. What we agree with is that Solhjell's patent is concerned with the control of the ROLLING FORCE of the magnetic core ball and not with the REPLACEMENT of the third wheel as you stated. This conclusion can be easily reached as follows:

- a. At no point during Solhjell's description of his invention does he mention the REPLACEMENT or SUBSTITUTION of the third wheel. In fact, on the 4th page, second column, line 25, he mentions that "Typically, the ball is touching three or four rollers ..." and at no point during his description does he mention the existence of ONLY TWO rollers.
- b. Controlling the ROLLING FORCE does not mean that the third wheel is replaced! The rolling force and the third wheel are not mutually exclusive. In fact, the way Solhjell describes his patent, the third wheel is necessary at all times. Here is why:

In the beginning of his patent, page 4, column 2, line 62 he states:

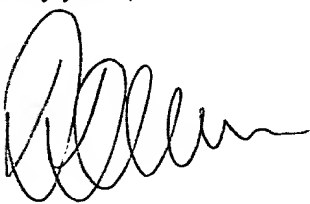
"It is an object of this invention to make it easier to adapt the mouse to the particular need of an operator by making it possible to adjust the rolling force of the ball (both for type 1 and type 2 mice)."

Where the type 1 mouse is the same as our mouse and type 2 is a tracking ball mouse. After this statement there is no more differentiation between the type 1 and type 2 mice. In other words, the implication is that from that point onward his description of "CONTROLLING THE ROLLING FORCE" applies equally to both types of mice.

Next, we present a proof by contradiction. Assume for a moment that, as you stated in your detailed action 4, "a third contact (the free rolling 18 as shown in Fig. 5) is REPLACED with a magnet (66 in Fig. 11), therefore there is not third contact between the ball" and another part of the mouse. If this is the case, since Solhjell's description applies to both types of mice EQUALLY, you are implying that Solhjell described a procedure in which a type 2 mouse (a trackball) would have contact with only two wheels and there would be no third contact with any other part of the trackball. Clearly this is not possible! In a trackball device, the ball will always be in contact with AT LEAST three points of the mouse. By contradiction, this means that Solhjell could NOT have described a mouse in which A MAGNET REPLACES the THIRD WHEEL. In Fig. 11 Solhjell is concerned with creating a magnetic field on the ball, which will slow down its rotation (i.e. rolling force). That is all he was concerned with, and that is all that his patent describes.

Please review our documents carefully and if there are any questions feel free to contact me at 703.228.9025. If you disagree with my reasoning in this paper, may I ask you to contact me before giving this patent a final rejection? Thank you.

Sincerely yours,



D. Darian Muresan
Jan. 30th, 2003.